

Oil Field Environmental Incident Summary

Incident: RWH00000313

Date/Time of Notice: 12/08/2013 14:33

Responsible Party:

Well Operator: BTA OIL PRODUCERS, LLC

Well Name: FEDERAL DM 9210 JV-P 2

Field Name: BEAVER CREEK

Well File #: 14953

Date Incident: 12/8/2013

Time Incident: 08:00

Facility ID Number:

County: BILLINGS

Twp: 142

Rng: 102

Sec: 6

Qtr: NE NW

Location Description:

Submitted By: Jed Buckman

Received By: Rick Hutchens

Contact Person:

104 SOUTH PECOS
MIDLAND, TX 79701

General Land Use: Well/Facility Site

Affected Medium: Well/Facility Soil

Distance Nearest Occupied Building:

4 Miles

Distance Nearest Water Well:

2 Miles

Type of Incident: Vessel Leak

Release Contained in Dike: No

Reported to NRC: Unknown

	Spilled	Units	Recovered	Units	Followup	Units
Oil	0	barrels	0	barrels	20	barrels
Brine	650	barrels	0	barrels	600	barrels
Other	0	barrels	0	barrels	0	barrels

Description of Other Released Contaminant:

Inspected:

Written Report Received: 1/10/2017

Clean Up Concluded: 12/16/2013

Risk Evaluation:

None

Areal Extent:

Ran off site and into drainage ran about 1/2

Potential Environmental Impacts:

Possible soil and surface water impacts.

Action Taken or Planned:

Shut well in, made containment areas and have vac trucks recovering fluid. Plan on recovering all standing fluid and then attempt to flush tomorrow.

Wastes Disposal Location: Fluid is hauled To a SWD.

Agencies Involved:**Updates**

Date: 12/9/2013 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Met with the company representative and also talked to the cleanup company. The cleanup company dug three catchment holes. 40 barrels of product were pumped out of the second catchment hole. A dam was constructed with the soil from the catchment holes. As the cleanup crew was driving out of the drainage, another area was discovered. They dug another catchment hole and constructed a dam with this excavated soil. The cleanup crew walked out the drainage another quarter mile to the culvert and did not see anything past the last hole.

I walked the large drainage with the cleanup crew. The last hole had a little product in it. We continued on past this point and could not see anything. This drainage is about 10 feet wide; however, the flow pattern in the drainage is small -- about a foot wide by six inches deep.

The company representative was waiting for the Forest Service personnel to show up to discuss the plan. The Forest Service personnel had not shown up when I left. The plan was to start cleaning the drainage tomorrow using hot water and cleanup chemical. He was not able to get trucks and hot oil truck until then. I indicated that I would return tomorrow.

Date: 12/9/2013 **Status:** Correspondence

Author: Miller, Adam

Updated Oil Volume: 20.00 barrels

Updated Salt Water Volume: 650.00 barrels

Updated Other Volume:

Updated Other Contaminant

Notes:

I spoke with the company contact to get an update on the cleanup efforts. They put dikes in the drainage to contain the spill and were using them as a collection point. As of this morning, 40 bbls of mostly brine water had been collected. The Forest Service has been notified as the spill is on USFS land. The company contact stated an environmental consultant is en route to assist with cleanup and provide direction. Updated estimates for amount spilled are 650 bbls of brine and 20 bbls of crude oil, with most of that amount escaping the location.

Date: 12/9/2013 **Status:** Reviewed - Follow-up Required

Author: Stockdill, Scott

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

According to the report, this incident impacted a local watershed. Followup necessary. Brady Espe will inspect on 12/9/13.

Date: 12/10/2013 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I made it to the site at 10:30 a.m.; the temperature was about 10°F, with strong wind from the northwest. The temperature was significantly warmer than yesterday with a lot less wind. Upon arrival, I noted three water trucks and a hot oil truck working its way toward the well pad. The company representative was not at the site yet, so I talked to the cleanup crew. I decided to take ice and water samples in the drainages and from the produced water tank. Numerous samples were taken. I also was able to see the area better with less snow and wind. The area has three wells. There is a lease road that goes south toward the wells. The lease road is used for FEDERAL DM 9210 JV-P 1 and a Whiting well. The well 2 (responsible for the release) is located southwest of well 1. To get to the lease road for well 2, you have to go back to the main gravel road and come in from the south. The spill occurred on the northwest corner of the well pad. A seal on the treater failed, causing the produced water to flow into the tank dike system and then out the northwest corner of the tank dike system. This well is at the top of the drainage. The spill followed the drainage that flows northeast, where it meets up with another drainage that comes from the south. Both drainages are small and do not have continuous flow. Both drainages flow north past well 1 through a culvert in the road to well 1. The drainage follows the east side of the lease road. About an eighth of a mile down, the drainage flows into the larger drainage that flows from the west to the east. I took a snow sample upstream of the spill and also upstream of where the two small drainages merge. I also took samples from the first collection hole and last collection hole. I also took a downstream sample of ice near the cattle crossing on the main road, and an ice sample from the culvert upstream of collection hole 2. This culvert allows the large drainage to flow under the main lease road.

The company representative showed up at the site. We took a sample from the production water tank. He also indicated that the Forest Service personnel showed up late yesterday and were fine with the plan. The pumper truck was parked at the top of the spill. The cleanup crew dug a collection pit just west of the merging point of the two small drainages. Two pumper trucks were placed at this hole. The hot oil operator sucked in the BioCal additive for salt water removal. They washed a small area and realized that there was also oil mixed in with the produced water. The company representative ordered some Dawn dish soap, along with more BioCal. The Dawn helps remove the oil from the vegetation. All wash water will be recovered and disposed. When I left, they were waiting for the soap and BioCal. The water was flowing down the drainage but had not reached the catchment hole. I will return tomorrow to check on their progress.

Date: 12/11/2013 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The company was finishing up for the day; they had made it to the first dugout or bell area. Equipment was late, but the cleanup crew was able to figure out what to do. One of the higher company personnel was at the site from Midland, Texas; he indicated that they would be replacing the tank containment systems at all sites. I will return tomorrow to check on their progress.

Date: 12/12/2013 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I made it to the site at 2:49 p.m.; the temperature was about 31°F, with strong wind from the west. When I arrived at the site, the crews were working on the area where the two drainages meet south of the well FEDERAL DM 9210 JV-P 1 lease road. There was one hot oil truck being used. Two pumper trucks were pumping from the pit just south of culvert in lease road for well 1. I talked to the company person at the site. He was hoping to have been further today. The equipment was late, and some equipment never showed up. They also had some breakdowns. He will have two hot oil trucks, two pumpers, and two tandem clean water trucks. They have done about a third of the drainage, which included 200-300 feet today. The decision was made to do a larger area in the current spot to make sure everything was washed. I will do more followup tomorrow to see how the clean-up process is going.

Date: 12/13/2013 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I made it to the site at 2:30 p.m.; the temperature was about 9°F, with strong wind from the west. When I arrived at the site, the crews were past the well FEDERAL DM 9210 JV-P 1 lease road. The crews were just constructing a small dam to catch the wash water and setting up the pump trucks in that area. They had made good progress today; they will be working through the weekend. The BioCal will not be used in the main drainage. I talked to the company person at the site. He had some contractors coming to look at the well site to bid on fixing the pad and making it larger. The well is shut off until the containment around the tanks is re-done. The company is going to replace the current containment with a metal synthetic-lined containment. They had used 840 barrels of fresh water the first two days and hauled 730 barrels to the disposal site. More followup will be done.

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Received from USFS, this date.

Undesirable Event #12

Operator:	BTA Oil Producers, LLC
Location:	near DM 2 and DM 1 locations N2NE Sec 6 T142N R102W
Type of Event:	Saltwater and oil spill
Date of Event:	12/8/2013
Date Reported:	12/8/2013
Spill Quantity:	650 bbls saltwater 20 bbls oil

Remarks: The company reported that a flange failed near the heater treater, causing produced water and oil to run into the diked area, which made its way through a weak spot in the tank dikes. The spill originated in the NENW of section 2, T142N, R102W, at the DM #2 location on private land. The saltwater ran down the side of the well site into a drainage on to US Forest Service land and continued for approximately 2, 158 feet. The company shut in the well and contained the spill with a series of bell holes and dikes. The company recovered 40 barrels of saltwater initially with a vac truck. The ground was frozen 6 to 12 inches in depth, which should have helped slow the penetration of the saltwater. The company is flushing all segments of the spill area with fresh water to take advantage of the frozen ground conditions and using a vac truck to suck up the fluids at the bell hole locations. The fluids are being disposed of at a saltwater disposal facility. The spill area will be reevaluated in the spring.

Jason Dekker
Oil and Gas Resource Specialist
USDA-Forest Service
Medora Ranger District
99 23rd Ave. W, Suite B
Dickinson, ND 58601-2202
Office 701-227-7825

Date: 12/23/2013 **Status:** Inspection

Author: O'Gorman, Brian

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Arrived on location 12/23/13 at 12:20 CT. Weather conditions were partly cloudy, -10 F, southwest wind at 5-10 mph and 2 to 4 inches of fresh snow cover on the ground surface. Observed the areas and took photographs. Observed two bell holes with diking on the down-gradient side along the road that entered the release location. Both bell holes were dry and contained snow from a prior snow event. No evidence of impact was observed due to the area being covered with snow. No contractors were observed on location. Follow up after snowmelt and/or follow up with US Forest Service when location becomes free of snow cover.

Date: 4/24/2014 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The weather was 59 °F, clear, with wind from the west 10 to 20 miles per hour. The dike around the tanks has been redone with clay. The eroded area on the pad has been repaired. The upper 100 yards of drainage is still oil-stained; this area is on private land. The rest of the drainage and creek area looks good, with not much spring runoff to this point. There appears to be a lot of saline and sodic soils located in the main drainage. Follow up this summer to check on vegetation growth.

Date: 7/11/2014 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The weather was 79°F, partly cloudy, with wind from the northwest 10-15 mph. The stretch of drainage from tank site to where it turns has dead brush, branches, grass, and trees along path of spill. There are green shoots of vegetation among the dead vegetation. It looks better from the turn to the culvert. From the culvert south, the vegetation looks good, and there are rushes growing in the drainage. More followup is needed in the future to check on vegetation growth.

Date: 9/22/2014 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

The upper reaches have more green shoots showing up. There have been cattle in the area this summer. The oil service company was at the site working on the system, they are completing a metal diking system. The employee for the service company was the main person that helped with the cleanup. He indicated that this summer he raked up the area impacted on the forest service land. While at the site he indicated that he had also looked at the upper reach of drainage. He talked to the BTA company personnel and it was decided that this area will be mowed in the near future, too help the vegetation growth. The area on the forest service land looks good. Future follow-up is needed to check on the vegetation growth.

Date: 5/15/2015 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I arrived at the site at 9:52 a.m. The weather was clear, 48°F, with the wind from the southeast 5-10 mph. There are still a couple of small areas that are brown near the pad. The lower stretch of drainage is growing. More followup later this summer to check on upper area.

Date: 7/23/2015 **Status:** Inspection

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

I arrived at the site at 15:12. The weather was cloudy, 86°F, with the wind from the northwest 5-10 mph. The areas near the pad still have some areas not growing. More follow-up needed.

Date: 9/25/2015 **Status:** Correspondence

Author: Espe, Brady

Updated Oil Volume:

Updated Salt Water Volume:

Updated Other Volume:

Updated Other Contaminant

Notes:

Received United States Forest Service reports on the clean-up that occurred on their land from this incident.